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Ameta S20 Pro

Ameta S20 Pro 4K GPS Drone Instruction Manual

MODEL: S20 PRO

Introduction

Thank you for choosing the Ameta S20 Pro 4K GPS Drone. This manual provides essential information for the safe and efficient operation of your new drone. Please read it thoroughly before first use and retain it for future reference. The Ameta S20 Pro is a lightweight, C0 class certified drone, weighing only 181g, making it ideal for beginners and travelers. It features a 4K camera with a 13MP IMX258 sensor and a 90° adjustable lens, offering crystal-clear video and photo capabilities. With two 3000 mAh batteries, you can enjoy up to 50 minutes of continuous flight. Advanced GPS positioning ensures precise control and safety features like automatic return. Explore creative aerial photography with intelligent flight modes such as Rocket Takeoff, Circle Flight, Dronie, Panorama, Timelapse, and Gesture Selfie.

What's in the Box

Your Ameta S20 Pro package includes the following components:

- Ameta S20 Pro Drone
- Remote Control
- 2 x 3000 mAh Lithium-ion Batteries
- USB Charging Cable
- Spare Propellers (8 pieces)
- Screwdriver
- User Manual (this document)
- Quick Start Guide
- Storage Bag

Contenu de la Boîte

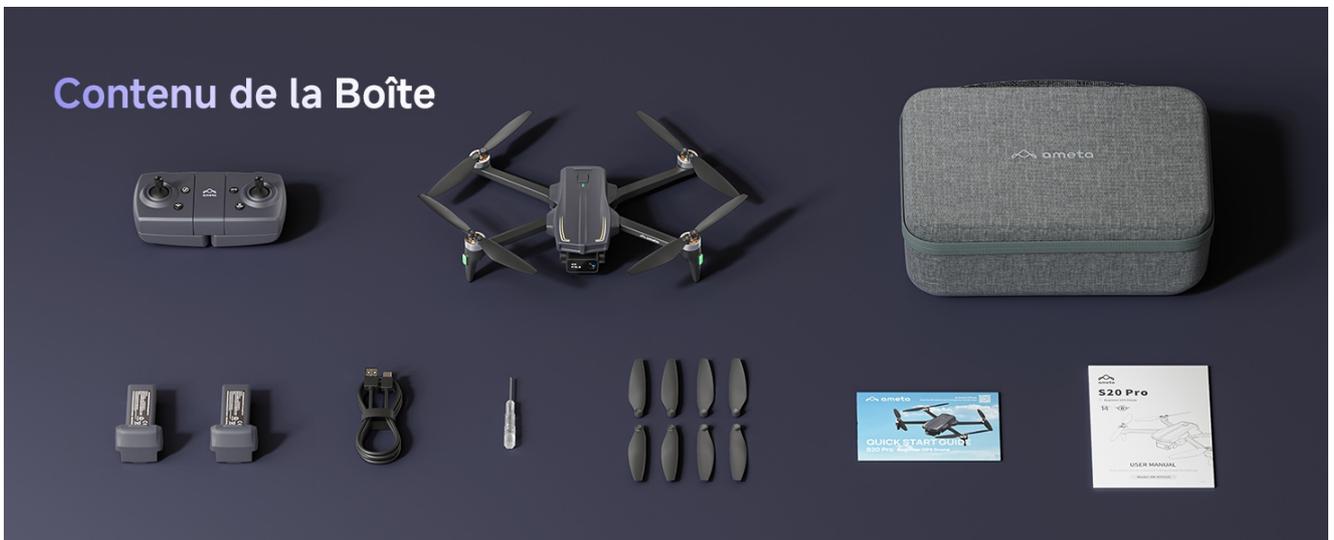


Image: All components of the Ameta S20 Pro drone package, including the drone, remote, batteries, spare propellers, charging cable, screwdriver, and carrying case.

Setup

1. Drone Preparation

1. **Unfold the Drone Arms:** Gently unfold the front arms first, then the rear arms until they lock into place.

GPS Fiable pour un Contrôle Précis du Drone



Retour
Automatique



Vol en
Trajectoire



Vol en
Cercle



Suiveur
GPS

* Remarque : Les fonctions GPS ci-dessus ne sont disponibles que lorsque le mode GPS est activé.

Image: A person unfolding the arms of the Ameta S20 Pro drone.

2. **Install Battery:** Ensure the drone battery is fully charged using the provided USB cable. Insert the charged battery into the drone's battery compartment until it clicks securely.

Batterie Longue Durée pour une Exploration Plus Poussée

50



Minutes 
(25 Minutes*2 Batterie)

Batterie Améliorée

50 Minutes

Batterie Origine

36 Minutes

+38%
Prolongation
de



Image: A hand inserting the fully charged battery into the drone's rear compartment.

3. **Insert Micro SD Card (Optional):** For storing 4K photos and videos directly on the drone, insert a Micro SD card (up to 128GB, FAT32 or exFAT format, sold separately) into the designated slot on the drone.

2. Remote Control Preparation

1. **Install Remote Control Batteries:** Open the battery compartment on the back of the remote control and insert 3 AAA batteries (not included), ensuring correct polarity. Close the compartment securely.
2. **Unfold Phone Holder:** Unfold the phone holder and handles on the remote control. Mount your mobile phone securely into the holder.

3. App Download & Connection

Download and install the "AMETA Drone" app from your device's app store. Once installed, launch the app.

4. Pairing and Calibration

Before flying, the drone and remote control must be paired and calibrated. This process ensures stable and accurate flight.

Video: Detailed guide on pairing the drone and remote control, followed by gyroscope and compass calibration for both outdoor and indoor environments.

1. **Power On:** Place the drone on a flat, level surface. Press and hold the power button on the drone for 3

seconds until the lights blink. Then, press and hold the power button on the remote control for 3 seconds. All LED indicators will turn solid when automatic pairing is successful.

2. Outdoor Calibration (GPS Mode):

- **Gyroscope Calibration:** Push both joysticks simultaneously to the 5 o'clock position. The drone's lights will blink rapidly, then become solid after a "di" sound, indicating successful gyroscope calibration.
- **Compass Calibration (Horizontal):** Push both joysticks simultaneously to the 7 o'clock position. The remote screen will prompt "Horizontal calibration operation." Lift the drone to about 1.2 meters and rotate it horizontally three times until the remote beeps "di" and the drone lights indicate success (green blinking, red solid).
- **Compass Calibration (Vertical):** The remote screen will immediately prompt "Vertical calibration operation." Turn the drone vertically three times until the remote beeps "di-di" and the drone lights indicate success (green blinking rapidly, red solid, then green solid, red blinking slowly).

3. **Indoor Calibration (Indoor Mode):** If flying indoors, switch to Indoor Mode by long-pressing the GPS/Indoor Mode button on the remote. Then perform gyroscope and compass calibration as described above. Note: GPS signal is not available indoors, so satellite search will not occur.

Operating Instructions

1. Propeller Unlocking/Locking

There are two methods to unlock the propellers:

- **Method 1 (One-Press Unlock):** Briefly press the unlock button on the remote control. The propellers will start spinning. Press again to stop them.
- **Method 2 (Joystick Unlock):** Simultaneously push the left joystick to the 7 o'clock position and the right joystick to the 5 o'clock position. The propellers will start spinning. Repeat the action to stop them.

2. Take-off and Landing

Ensure propellers are unlocked before attempting take-off.

- **One-Key Take-off/Landing:** Briefly press the One-Key Take-off/Landing button on the remote control. The drone will automatically ascend to about 1 meter. Press the button again to initiate an automatic landing.
- **Manual Take-off/Landing:** After unlocking the propellers, gently push the left joystick upwards to take off. To land, gently pull the left joystick downwards until the drone lands and the propellers stop.

3. Flight Controls (Joystick Functions)

The remote control joysticks provide precise control over the drone's movement:

- **Left Joystick:**
 - Up/Down: Controls altitude (ascend/descend).
 - Left/Right: Controls yaw (rotates the drone left/right).
- **Right Joystick:**
 - Up/Down: Controls forward/backward movement.
 - Left/Right: Controls left/right sideward flight.

4. Speed Adjustment

The drone offers three adjustable speed levels:

- Locate the speed adjustment wheel on the top right of the remote control.

- Slide the wheel to the right to increase speed (up to Level 3, indicated by "di-di-di" sound).
- Slide the wheel to the left to decrease speed (down to Level 1, indicated by "di" sound).

5. Intelligent Flight Modes

The Ameta S20 Pro features several intelligent flight modes for creative shots and enhanced control:

- **GPS Follow Me:** The drone will automatically follow your movements, capturing dynamic footage.



Image: Drone automatically following a person walking in a field, demonstrating the Follow Me mode.

- **Waypoint Flight:** Plan a custom flight path on the app's map, and the drone will autonomously follow the route, allowing for hands-free filming.



Image: Drone flying along a path marked with waypoints on a map, illustrating Waypoint Flight.

- **Circle Flight:** The drone orbits around a designated point, creating a smooth, cinematic circular shot.



Image: Two drones circling a lighthouse, demonstrating the Circle Flight mode.

- **Rocket Takeoff:** The drone ascends vertically to about 15 meters and then returns to its starting point for a dramatic shot.



Image: Drone ascending vertically over a person on a paddleboard, illustrating Rocket Takeoff.

- **Dronie (Éloignement):** The drone flies backward and upward, gradually revealing a wider scene.

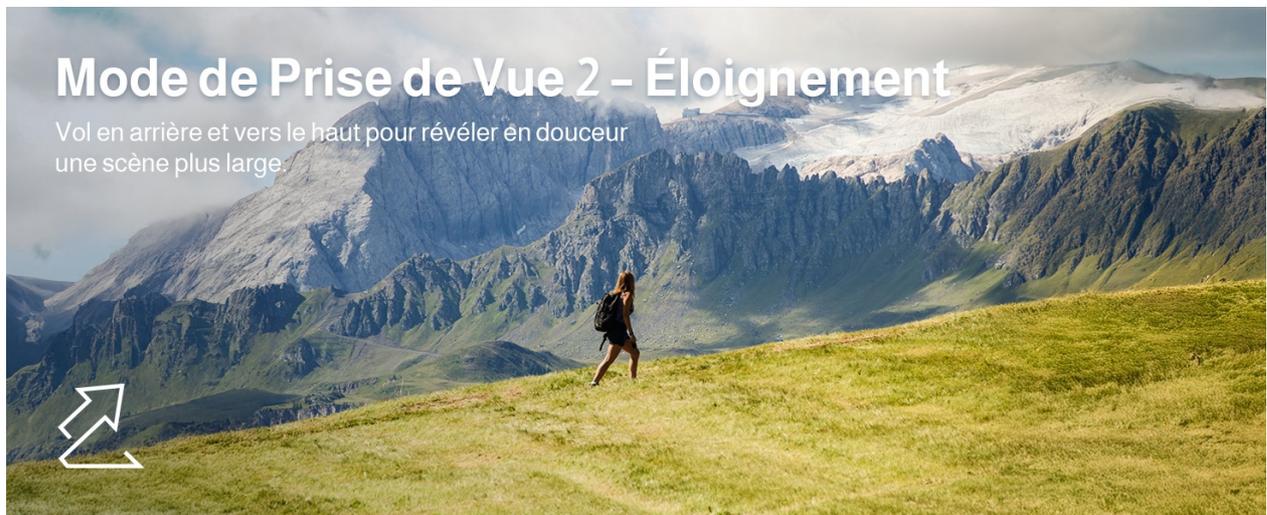


Image: Drone flying backward and upward over a person in a mountain landscape, demonstrating Dronie mode.

- **Panorama:** The drone rotates horizontally to capture multiple photos, which can be stitched together to create a panoramic image.



Image: Drone capturing a wide panoramic view of a beach and coastal town.

- **Timelapse:** The drone hovers in place and records over an extended period to capture the passage of time.

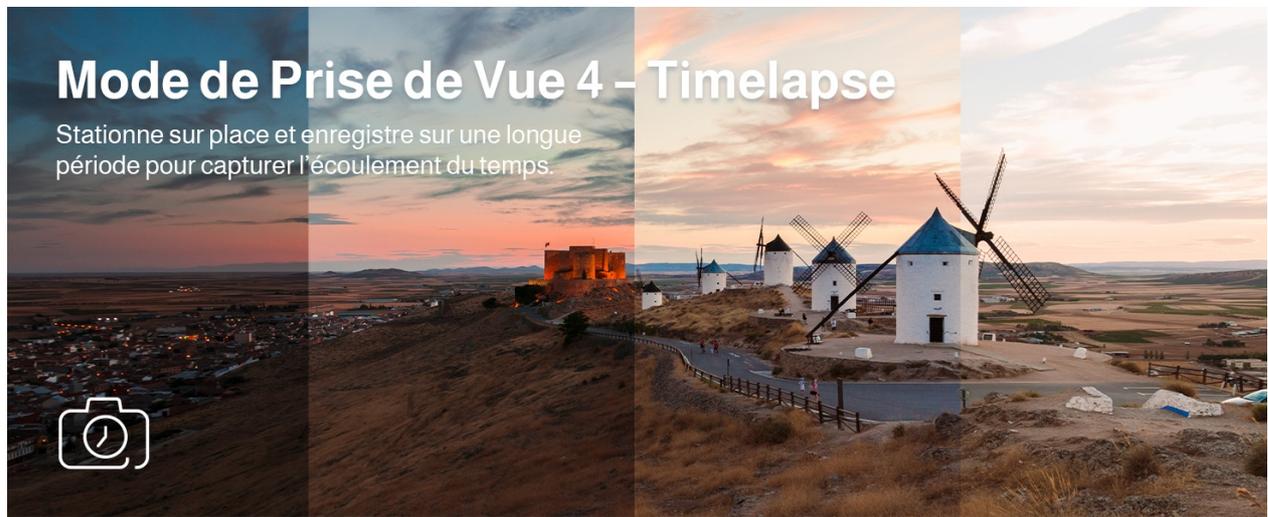


Image: Drone capturing a timelapse of a scenic landscape with windmills and a distant town.

- **Gesture Control:** Use specific hand gestures to trigger photo or video recording.

6. Return to Home (RTH)

The Return to Home function automatically brings the drone back to its takeoff point. This feature is activated in several scenarios:

- **One-Button RTH:** Briefly press the RTH button on the remote control. The remote will emit intermittent "di" sounds, indicating the drone is returning.
- **Low Battery RTH:** The drone will automatically return when the battery level is critically low.
- **Signal Loss RTH:** If the connection between the remote control and the drone is lost, the drone will automatically return to its takeoff point.



Image: Drone flying back to its original takeoff point, indicated by a path on the ground, demonstrating the Return to Home function.

7. Photo and Video Capture

Capture stunning aerial footage with the drone's 4K camera:

- **Adjust Camera Angle:** Use the camera angle adjustment wheel on the remote control to tilt the camera up or down (90° adjustable).
- **Take Photos:** Briefly press the photo button on the remote control. The remote will emit a "di" sound, and the screen will confirm the photo has been taken.
- **Record Videos:** Press and hold the video button on the remote control. The remote will emit a "di-di" sound, and a recording icon will blink on the screen. Press and hold again to stop recording.

Caméra 4K avec Capteur IMX258 13MP



3840*2160 Vidéo et Photo



5G WiFi Transmission



Caméra Réglable



Image: Close-up of the drone's 4K camera with a 13MP sensor, highlighting its adjustable angle.

8. File Management

Access and manage your captured media directly from the remote control:

- **View Photos/Videos:** Briefly press the "OK" button to enter the file management interface. Use the navigation buttons to select "Photo" or "Video" and then press "OK" to view your files.
- **Format SD Card:** In the file management interface, select "Format." Be cautious, as formatting will delete all data on the SD card.

Maintenance

1. Propeller Replacement

If a propeller is damaged, replace it with a spare from your kit. Ensure correct installation:

- **Removal:** Hold the drone motor. Use the screwdriver to unscrew the two screws holding the propeller. Gently remove the damaged propeller.
- **Installation:** Match the new propeller (labeled A or B) to the corresponding motor arm (also labeled A or B). Place the propeller on the motor, align the screw holes, and secure it with the screws using the screwdriver. Ensure the propeller is firmly attached but not overtightened.

2. Battery Care

- Always remove the battery from the drone when not in use to prolong its lifespan.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not overcharge or over-discharge batteries.

3. General Cleaning

- Wipe the drone and remote control with a soft, dry cloth after each use.
- Avoid exposing the drone to water or moisture.

Troubleshooting

If you encounter issues with your Ameta S20 Pro drone, refer to the following common problems and solutions:

- **Drone Fails to Power On:** Ensure the battery is fully charged and correctly inserted. Check if the power button is pressed and held for the required duration.

- **Remote Control Fails to Power On:** Check if the AAA batteries are correctly inserted and have sufficient charge.
- **Drone Fails to Pair:** Ensure both the drone and remote control are powered on and placed on a flat surface. Repeat the pairing process. If issues persist, try turning both devices off and on again.
- **Unstable Flight:** Perform gyroscope and compass calibration again on a flat, level surface. Ensure there are no strong magnetic interferences nearby.
- **No GPS Signal (Outdoor):** Ensure you are in an open area with a clear view of the sky. Wait for the drone to acquire sufficient satellite connections (indicated by the remote control screen).
- **Poor Camera Feed/Connection:** Ensure your mobile phone is correctly connected to the drone's Wi-Fi network. Check for any obstructions between the drone and your phone.
- **Propellers Not Spinning:** Ensure the drone is unlocked. Check for any obstructions or damage to the propellers.

Specifications

Feature	Detail
Brand	Ameta
Model Name	S20 Pro
Manufacturer Model Number	DR-ATS21G
Item Weight	181 Grams
Product Dimensions	33 x 28 x 5 cm
Battery Type	2 Lithium-ion (included)
Video Recording Resolution	4K
Effective Still Resolution	13 Megapixels
Connectivity Technology	Wi-Fi
Special Features	Automatic Landing, Integrated GPS, One-Button Return, Automatic Tracking, Extended Flight Time
Age Range (Description)	Child (suitable for adults and children)

Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Ameta website. Keep your proof of purchase for any warranty claims.